

### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

**NAAC SSR Cycle IV** (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

# PERCENTAGE OF SYLLABUS REVISION 2020 AND LATER



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

### DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION **B.SC MICROBIOLOGY** 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

### SIVAKASI. DEPARTMENT OF MICROBIOLOGY B.SC MICROBIOLOGY – BDMB (For those who have joined in June 2020 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	2
3.	Part III	27
4.	Part IV	4
	Total	37

Total Number of Courses having changes : 37

Total Number of Courses : 44

Percentage of Revision : 84 %

Signature of the HOD

Signature of the Principal

PRINCIPAL.
The Standard Fireworks Rajaratnam College for Women, SIVAKASI



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOGY

2020 AND LATER

#### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

(For those who have joined in 2020 and later) B.Sc. Microbiology Programme Scheme

Component			Hours /eek	Credits	Exam.	Ma	rks Allo	otted
Com	Course Code	Course Title	Teaching Hours Per Week		Duration)of Exam. Hrs.	Internal	External	Total
Semester	I							
Part I	BDGT11/ BDGH11/ BDGF11	தற்காலஇலக்கியம்// Hindi Language Course – I / French Language Course – I	6	3	3	40	60	100
Part II	BDGE11	English for communication-I	6	3	3	40	60	100
	BDMB11	Major Courses Microbiology & Microbial diversity	4	4	3	40	60	100
	BDMB12	Food Microbiology	3	3	3	40	60	100
Part III	BDMB1L	Practical I	3	2	3	50	50	100
	BDMB1A	Allied Courses Basic Biochemistry	4	4	3	40	60	100
		Allied Practical	2	-				-
Part IV	BDES11	Value Added Course Environmental studies	2	2	2	40	60	100
		Total	30	21				700
Semester	II							
Part I	BDGT21/	காப்பியஇலக்கியமும்புதினமும் /						18.39
rart 1	BDGH21/	Hindi Language Course -II /	6	3	3	40	60	100
	BDGF21	French Language Course – II				-	- 10	
Part II	BDGE21	English for communication-II	6	3	3	40	60	100
	BDMB21	Major Courses Microbial Physiology &Metabolism	5	5	3	40	60	100
Part III	BDMB2L	Practical II	3	2	3	50	50	100
raitin	BDMB2A	Allied Courses Cell & Molecular Biology	4	4	3	40	60	100
	BDMB2AL	Allied Practical I	2	2	3	50	50	100
	BDVG21	Value Added Course Value Education & Gender Studies	2	2	2	40	60	100
Part IV	BDCL23	Skill Based Course Introduction to Computers & MS office	2	2	2	40	60	100
Part V	BDSA2	Social Awareness Programme & Physical Education	•	1	-	•	-	100
		Total	30	24				900
Semester	III				San River			
Part I	BDGT31/ BDGH31/ BDGF31	<mark>காப்பியஇலக்கியம்;/</mark> Hindi Language Course –III / French Language Course – III	6	3	3	40	60	100
David IV	BDGF31	English for enrichment-I	6	3	3	40	60	100
Part II	BDGEST		5	5	3	40	60	100
		Major Courses	3	3	3	40	00	100



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOGY

2020 AND LATER

Part III	BDMB31	Fundamentals of Immunology						
	BDMB32	Pharmaceutical Microbiology	4	4	3	40	60	10
	BDMB3L	Practical III	3	2	3	50	50	1
		Allied Courses						
	BDMB3A	Inheritance Biology	4	4	3	40	60	10
	-	Allied Practical II	2	-	-	-	-	
		Total	30	21				60
		course BDMB3L - PRACTICAL III						
Semester	1							
Part I	BDG141/ BDGH41/	சங்கஇலக்கியம் /						
	BDGH41/ BDGF41	Hindi Language Course -IV/	6	3	3	40	60	10
Part II	BDGF41 BDGE41	French Language Course – IV						
Part II	BDGE41	English for enrichment-II	6	3	3	40	60	10
	DDMD41	Major Courses Microbial Genetics	5	5	3	40	60	10
	BDMB41 BDMB4L	Practical IV				-		
Part III	BDMB4L		3	2	3	50	50	10
	BDMB4A	Allied Course Bioinformatics	4	4	3	40	60	10
	BDMB4AL BDMB4AL	Allied Practical II	2	1				
	BDMB4N	Non Major Elective Course	2	2	3	50	50	10
	BDWB4N	Fundamentals of Microbiology	2	2	2	40	60	10
Part IV		Skill Based Course						
	BDMB4DS	Discipline Specific Course	2	2	2	40	60	10
	DDMD4D3	Instrumentation & Biotechniques	-	-	-	40	00	10
		Total	30	23				80
Semester	V					1		100
		Major Courses				T		
	BDMB51	Medical Microbiology	6	5	3	40	60	100
	BDMB5L1	Practical V	6	3	3	50	50	100
	BDMB5L2	Practical VI	3	3	3	50	50	10
	BDMB5V	Internship/ On –The - Job Training	-	1	-	-	100	10
Part III		Major Elective Courses			-	-	100	10
	BDMB5E1/	Recombinant DNA Technology /	5	5	3	40	60	100
	BDMB5E2	Virology	3	3	3	40	60	10
	BDMB5E3 /	Microbes in Plant Pathology/						
	BDMB5E4	Genomics & Proteomics	5	4	3	40	60	100
	BDCG51	Skill Based Course	-					
Part IV	BDCG31	Career Guidance	2	2	2	40	60	10
Tartiv	BDMB5N	Non Major Elective Course	2	2	2	40	60	100
		Mushroom Technology						
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	25				800
Semester	VI						-	
	BDMB61	Major Courses	,	,	-	40		
		Industrial Microbiology	6	5	3	40	60	100
	BDMB62	Environmental Microbiology	5	5	3	40	60	100
	BDMB6L1	Practical VII	6	4	3	50	50	10
Part III	BDMB6L2	Practical VIII	3	3	3	50	50	100
		Major Elective Course						
	BDMB6E1/	Applied Biology & Biosafety /	5	5	3	40	60	10
	BDMB6E2	Nanobiotechnology				1	00	10
								_



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### DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION **B.SC MICROBIOLOGY** 2020 AND LATER

Part IV	BDSE67/ Skill Based Courses  BDJO Self-Employment/ Job Oriented courses – Theory  BDSE67L/BDJO Self-Employment/ Job Oriented		. 2	2	2	40	60	100
Part IV		courses - Practical	2	2	3	50	50	100
	-	Library and Information Science	1	-	-	-	-	-
P: 11		Total	30	26				700
Field visit	mandatory for the c	ourse- BDMB6L2 -PRACTICAL VIII						

Signature of HOD

T-Palaness Signature of Principal

Dr. T. Palaneeswari
PRINCIPAL
The Standard Firewerks Rajaratnam College for Women, SIVAKASL



### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

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**NAAC SSR Cycle IV** (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

## PERCENTAGE OF SYLLABUS REVISION 2017 AND LATER



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### DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISIONN **B.SC MICROBIOLOGY** 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

## SIVAKASI. DEPARTMENT OF MICROBIOLOGY B.SC MICROBIOLOGY – GLMB (For those who have joined in June 2017 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	1
4.	Part IV	9
	Total	18

Total Number of Courses having changes :18

Total Number of Courses :42

Percentage of Revision : 42.8%

Signature of the HOD

T. Palaneesis Signature of the Principal

Dr. T. Palaneeswari PRINCIPAL The Standard Firework Rajaratnam College for Women, SIVAKASI.



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOGY 2017 AND LATER

	Subject					Semester			
			I	II	III	IV	V	VI	Total
]	Language Co	urses							
Part I: Tan	nil Language	course	6(3)	6(3)	6(3)	6(3)	-	-	12
Part II: En	glish Langua	ge course	6(3)	6(3)	6(3)	6(3)	-	-	12
Part III: N	lajor and Al	lied Courses			•				
		Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)	
		Course II	3(3)	-	3(3)	-	5(5)	5(5)	
a) Major	Theory	Course III	-	-	-	-	5(5)	5(5)	]
	Practical	Lab I	3(*)	3(4)	3(*)	3(4)	6(5)	6(4)	] .
		Lab II					3(*)	3(4)	
		Theory	4(4)	4(4)	4(4)	4(4)	-	-	
b) Allied		Practical	2(*)	2(2)	2(*)	2(2)	-	-	]
Total		•	11	15	11	15	20	23	95
Part IV: N	on – Major /	Value Added Co	urses					-	
Peace Educ	ation		2(2)	- 1	-	-	-	-	
Environme	ntal studies		-	2(2)	-	-	-	-	1
i) NME I			-	-	2(2)	_	-		1
ii) NME II			-	-	-	2(2)	-	-	1
1) Compute	er Literacy		-	2(2)	-	-	-	_	1
2) Disciplin	ne specific co	urse	-	-	-	2(2)	-	-	1
3) Career C	Suidance and	Subject Viva	-	-	_	-	2(2)	-	1
4) Women		,	-	-	-	-	2(2)	-	1
5)Self Emp Courses – 7	loyment / Joh	Oriented	-	-	-	-	-	2(2)	
6) Self Emp	ployment/ Job Practical/ Fie		-	-	-	-	-	2(2)	
	Information	Science	-	-	-		1(*)	1(*)	1
Total			2	4	2	4	4	4	20
Part V : E:	xtension Acti	vities - Physical	Educatio	n & Socia	l Awarenes	s Progran	ıme		
Red Cross Ribbon clu	/Extension A /Social Servion /b/Citizen Co				(*)(1)	7			1
Club/Envir	onmental clu	ID				1			140

Signature of HOD

Signature of Principal
Dr. T. Palaneeswari
PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOGY

2017 AND LATER

### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

(For those who have joined in 2017 and later) B.Sc. Microbiology Programme Scheme

onent			Teaching Hours Per Week	Credits	n of Hrs.)	Ma	rks Al	lotted
Component	Course Code	Course Title	Teac Ho Per V	ڻ ٽ	Duration of Exam. (Hrs.)	Internal	External	Total
Semester I								
Part I	GLGT11/ GLGH11/	சங்க இலக்கியமும் உரைநடையு ம்/	6	3	3	25	75	100
Tau I	GLGF11	Hindi Language Course – I/ French Language Course - I	0	3	3	23	13	100
Part II	GLEN11	Communicative English-I	6	3	3	25	75	100
	GLMB11	Wiajor course Microbiology & Microbial Techniques	4	4	3	25	75	100
Part III	GLMB12	Food Microbiology	3	3	3	25	75	100
	GLMB1A	Allied course Biochemistry	4	4	3	.25	75	100
Part IV	GLPETT	Value added course Peace Education	2	2	2	25	75	100
		Total	25	19				600
Part I	GLG121/ GLGH21/ GLGF21	காபபியஇலக்கியமும்புதின்மும்/ Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Street Street	Contract Con							
Part II	GLEN21	Communicative English-II	6	3	3	25	75	100
	GLMB21	Major course Microbial Taxonomy & Physiology	5	5	3	25	75	100
Part III	GLMB2A	Allied course Industrial Microbiology	4	4	3	25	75	100
	GLMB2L	Practical-I	3+3	4	3	40	60	100
	GLMB2AL	Allied Practical – I	2+2	2	3	40	60	100
Part IV	GLES21	Value Added Course Environmental studies	2	2	2	25	75	100
Part IV	GLCL23	Skill based course Introduction to Computers and MS office	2	2	2	25	75	100
Part V	ra gran	Extension Activities – Physical Education and Social Awareness Programme		1				100
		Total	35	26			- 410	900
Semester I	11	Librarian A Tillian						
Part I	GLG131/ GLGH31/ GLGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course –III / French Language Course - III	6	3	3	25	75	100
Part II	GLEN31	Communicative English-III	6	3	3	25	75	100
Part III	GLMB31	Major course Fundamentals of Immunology	4	4	3	25	75	100



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOGY 2017 AND LATER

	GLMB32	Cell & Molecular Biology	3	3	3	25	75	100
	GLMB3A	Allied course	4	4	3	25	75	100
	OD. IIDS I	Computer Application in Biology	4	4	3	25	13	100
Part IV	GLMB3N	Non Major Elective I	2	2	2	0.5		1.0
		Fundamentals of Microbiology			2	25	75	100
		Total	25	19				600
Semester	AV.							
	GLGT41/							1
	GLGH41/	கவிதை இலக்கியமும் சிறுகதையு ம்/						
Part I	GLGF41	Hindi Language Course -IV/	6	3	3	25	75	100
		French Language Course - IV						
Part II	GLEN41	Communicative English-IV	6	3	3	25	75	100
	GLMB41	Major course	5	5	3	25	75	100
	CV MP ()	Microbial Genetics						
Part III	GLMB4A	Allied course Bioinformatics	4	4	3	25	75	100
	GLMB4L	Practical-II	3+3	4	3	40		100
	GLMB4AL	Allied Practical – II					60	100
	GLMB4N		2+2	2	3	40	60	100
	OLMB4N	Non Major Elective II Mushroom Technology	2	2	2	25	75	100
	GLPH4DS	Skill Based Course	2	2	2	40	60	100
Part IV	L	Discipline Specific Course	2	2	2	40	60	100
	_	Scientific Skill Development						
		Total	35	25				800
Semester	V					-		
	Lavia							
	GLMB51	Major course	6	5	3	25	75	100
	GLMB5L	Medical Microbiology Practical-III		_		1		
Part III	GLMB5E1/		6	5	3	40	60	100
	GLMB5E1/ GLMB5E2	Major Elective course Recombinant DNA Technology/	5	5	3	25	75	100
	GEMBSEZ	Virology						
	GLMB5E3/	Virology Major Elective course	5	5	3	25	75	100
		Major Elective course Agricultural Microbiology/	5	5	3	25	75	100
	GLMB5E3/	Major Elective course Agricultural Microbiology/ Medical Biotechnology	5	5	3	25	75	100
	GLMB5E3/ GLMB5E4	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course						
Part IV	GLMB5E3/	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva	5	5	2	25	75 75	
Part IV	GLMB5E3/ GLMB5E4	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women	2	2	2	25	75	100
Part IV	GLMB5E3/ GLMB5E4	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies	2 2	2 2				100
	GLMB5E3/ GLMB5E4 GLGV51 GLWS51	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women	2	2	2	25	75	100
Part IV	GLMB5E3/ GLMB5E4 GLGV51 GLWS51	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies	2 2	2 2	2	25	75	100
	GLMB5E3/ GLMB5E4 GLGV51 GLWS51	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total	2 2 26	2 2 24	2 2	25 25	75 75	100 100 <b>600</b>
	GLMB5E3/ GLMB5E4 GLGV51 GLWS51	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course	2 2	2 2	2	25	75	100 100 <b>600</b>
	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology	2 2 26	2 2 24 5	2 2 3	25 25 25	75 75 75	100 100 <b>600</b>
Semester	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI GLMB61 GLMB62	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology Microbial Biotechnology	2 2 26 6 5	2 2 24 5 5	2 2 3 3 3	25 25 25 25 25	75 75 75 75	100 100 <b>600</b>
	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology	2 2 26 6 5 3+3	2 2 24 5 5 4	2 2 3 3 3 3	25 25 25 25 25 40	75 75 75 75 60	100 100 600 100 100
Semester	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI GLMB61 GLMB62 GLMB6L1	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology Microbial Biotechnology  Practical-IV	2 2 26 6 5	2 2 24 5 5	2 2 3 3 3	25 25 25 25 25	75 75 75 75	100 600 100 100 100 100
Semester	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI GLMB61 GLMB62 GLMB6L1 GLMB6L2	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology Microbial Biotechnology Practical-IV Practical - V  Major Elective course Genomics and proteomics /	2 2 26 6 5 3+3 6	2 2 24 5 5 4 4	2 2 3 3 3 3 3 3 3	25 25 25 25 40 40	75 75 75 75 60 60	100 600 100 100 100 100
Semester	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI GLMB61 GLMB62 GLMB6L1 GLMB6L2 GLMB6E1/ GLMB6E2	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology Microbial Biotechnology  Practical-IV  Practical - V  Major Elective course Genomics and proteomics / Nanobiotechnology	2 2 26 6 5 3+3 6 5	2 2 24 5 5 4 4 5	2 2 3 3 3 3 3 3	25 25 25 25 40 40 25	75 75 75 75 60 60 75	100 100 600 100 100 100 100
Semester	GLMB5E3/ GLMB5E4 GLGV51 GLWS51 VI GLMB61 GLMB62 GLMB6L1 GLMB6L2 GLMB6E1/	Major Elective course Agricultural Microbiology/ Medical Biotechnology  Value Added Course Career Guidance and Subject Viva  Value Added Course Women Studies  Total  Major course Environmental Microbiology Microbial Biotechnology Practical-IV Practical - V  Major Elective course Genomics and proteomics /	2 2 26 6 5 3+3 6	2 2 24 5 5 4 4	2 2 3 3 3 3 3 3 3	25 25 25 25 40 40	75 75 75 75 60 60	100 100 600 100 100 100



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION B.SC MICROBIOLOG 2017 AND LATER

	GLSE67L/GLJO	Self-Employment/Job Oriented Courses- Catering Tech. & Hotel Mgt Practical Practical.	2	2	3	40	60	100
	-	Library and Information science	1					
		Total	33	27				700
	800	۔۔						
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### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

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**NAAC SSR Cycle IV (2015-2020)** 

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

## PERCENTAGE OF SYLLABUS REVISION 2014 AND LATER



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISIONN B.SC MICROBIOLOGY 2014 AND LATER

### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN(AUTONOMOUS), SIVAKASI.

### DEPARTMENT OF MICROBIOLOGY B.SC., MICROBIOLOGY - 14UMB

(For those who have joined in June 2014 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	4
4.	Part IV	4
	Total	16

Total Number of Courses having changes :16

Total Number of Courses :39

Percentage of Revision : 41.02%

Signature of HOD

Signature of Principal

PRINCIPAL
The Standard Fireworks Rafaratnam
College for Women,
SIVAKASI.



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISIONN B.SC MICROBIOLOGY

#### 2014 AND LATER

### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, (AUTONOMOUS) SIVAKASI

B.Sc Microbiology- Allotment of Hours and Credits (for those who joined in 2014 and later)

	Subject	t				Semester	•		
			I	II	III	IV	V	VI	Total
1	Language Co	ourses							
Part I: Ta	mil Language	course	6(3)	6(3)	6(3)	6(3)	-	-	12
Part II: Er	nglish Langua	ige course	6(3)	6(3)	6(3)	6(3)	-	-	12
Part III:	Major and A	Allied Courses							
		Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)	
		Course II	3(3)	-	3(3)	-	5(5)	5(5)	1
	Theory	Course III	-	-	-	-	5(5)	5(5)	1
a) Major		Lab	3(*)	3(4)	3(*)	3(4)	6(5)	6(5)	
	Practical	Project	-	-	-	-	3(*)	3(3)	1
		Theory	4(4)	4(4)	4(4)	4(4)	-	-	1
b) Allied		Practical	2(*)	2(2)	2(*)	2(2)	-	-	1
Total			11	15	11	15	20	23	95
Part IV: 1	Non – Major	/Value Added	Courses						
Peace Edu	cation		2(2)	_	-	1 -	-	_	I
	ental studies		-	2(2)		-	-	-	1
i) NME I			<b>—</b>	-	2(2)	-	-	_	1
ii) NME II			-	-	-	2(2)	-	-	1
1) Comput	ter Literacy		-	2(2)	-	-	-	-	1
2) Soft Ski	II enhanceme	ent	-	-	-	2(2)	-	-	
3) Career	Guidance and	d Subject	-	-	-	-	2(2)	_	1
Viva									
4) Women	Studies		-	-	-	-	2(2)	-	1
	oloyment / Jo	b Oriented	-		-	-	-	2(2)	
Courses –									
	ployment/ Jo		-	-	-	-	-	2(2)	
Control of Control	Practical/ F	ield work/							
Project									
	d Information	n Science	-	-	-		1(*)	1(*)	
Total			2	4	2	4	4	4	20
Part V : F	Extension Ac	tivities - Physic	cal Educa	tion & S	ocial Awa	areness Pr	ogramm	e	
NSS/NCC	/Physical			1	1				
	/Extension		(*)		(1)				1
	Youth Red								
Cross/Soc	ial Service I	League		1					
Total									140
	08								140

Signature of HOD

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PRINCIPAL
The Standard Fireworks Rajaratham
College for Women,
SIVAKASI.



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISIONN B.SC MICROBIOLOGY

#### 2014 AND LATER

### THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

(For those who have joined in 2014 and later) B.Sc. Microbiology Programme Scheme

Component	THE STREET		Teaching Hours Per Week	Credits	on of Hrs.)		Mark	27.5
Сошр	Course Code	Course Title	Teac Ho Per	5	Duration of Exam. (Hrs.)	Internal	External	Total
Semester I								
Part I	14UGT11/ 14UGH11/ 14UGF11	சங்க இலக்கியமும் உரைநடையும் Hindi Language Course – I/ French Language Course - I	6	3	3	25	75	100
Part II	14UEN11	Communicative English-I	6	3	3	25	75	100
	14UMB11	Major course Microbiology & Microbial Techniques	4	4	3	25	75	100
Part III	14UMB12	Food Microbiology	3	3	3	25	75	100
	14UMB1A	Allied course Biochemistry	4	4	3	25	75	100
		Total	23	17				500
Semester I								
Part I	14UGT21/ 14UGH21/ 14UGF21	காப்பியஇலக்கியமும்புதினமும்/ Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Part II	14UEN21	Communicative English-II	6	3	3	25	75	100
	14UMB21	Major course Microbial Taxonomy & Physiology	5	5	3	25	75	100
Part III	14UMB2A	Allied course Medical Microbiology	4	4	3	25	75	100
	14UMB2L	Practical-I	3+3	4	3	40	60	100
	14UMB2AL	Allied Practical – I	2+2	2	3	40	60	100
Part IV	14UES21	Value Added Course Environmental studies	2	2	2	25	75	100
		Total	28	23				700
emester I	П							
Part I	14UGT31/ 14UGH31/ 14UGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course –III / French Language Course - III	6	3	3	25	75	100
Part II	14UEN31	Communicative English-III	6	3	3	25	75	100
Part III	14UMB31	Migrobial Genetics	4	4	3	25	75	100
	14UMB32	Cell & Molecular Biology	3	3	3	25	75	100
	14UMB3A	Allied course	4	4	3	25	75	100
Part IV	14UMB3NM		2	2	2	25	75	100



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# DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISIONN B.SC MICROBIOLOGY 2014 AND LATER

		Total	25	19				600
Semester	IV		Palin					Ship
	14UGT41/	கவிதை இலக்கியமும் சிறுகதையும்						
Part I	14UGH41/	Hindi Language Course -IV/	6	3	3	25	75	100
	14UGF41	French Language Course - IV		Ma I II		14-104		
Part II	14UEN41	Communicative English-IV	6	3	3	25	75	100
Part III	14UMB41	Major course	5	5	3	25	75	100
		Immunology & Immuno techniques						
	14UMB4A	Allied course Computation	4	4	3	25	75	100
		Application in Biology	(PRO June	100.00	RA II			
	14UMB4L	Practical-II	3+3	4	3	40	60	100
	14UMB4AL	Allied Practical – II	2+2	2	3	40	60	100
Part IV	14UMBNM	Non Major Elective II	2	2	2	25	75	100
001		Total	28	23				700
		E 4 E E						
Semester	V							
Part III	14UMB51	Major course	6	5	3	25	75	100
		Virology				23	15	100
	14UMB5L	Practical-III	6	5	3	40	60	100
	14UMB5E1	Major Elective course	5	5	3	25	75	100
		Recombinant DNA Technology	1993 1993			20	,,	100
	14UMB5E2	Industrial Microbiology	5	5	3	25	75	100
	14UMB5E3	Major Elective course	5	5	3	25	75	100
	100000000000000000000000000000000000000	Agricultural Microbiology				20	,,	100
	14UMB5E4	Medical Biotechnology	5	5	3	25	75	100
	THE LET	Total	32	30				600
		1.60 30 30.07						
						1		
Semester								
Part III	14UMB61	Major course	6	5	3	25	75	100
	25 25	Environmental Microbiology						
	14UMB62	Microbial Biotechnology	5	5	3	25	75	100
	14UMB6L1	Practical-IV	3+3	4	3	40	60	100
	14UMB6L2	Practical - V	6	4	3	40	60	100
	14UMB6E1	Major Elective course	5	5	3	25	75	100
	14UMB6E2	Genomics and proteomics Nanobiotechnology	-	-	2	0.5		100
			5	5	. 3	25	75	100
Part IV	14USE67	Catering Tech. & Hotel Mgt.	2	2	3	25	75	100
	14USE67L	Catering Tech. & Hotel Mgt. Prac	2	2	3	25	75	100
		Total	34	32				600

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